**PHYSICS 2021 - 22 August 31, 2021**

**Today’s Agenda (Day 10)**

1. HOUSEKEEPING ITEMS
2. HOMEWORK CHECK:

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1. CLASS ACTIVITY

🡪 CONT’D: Chapter 1 PPT Review

1. Section 1 – Methods of Science
2. Section 2 – Mathematics and Physics
3. Section 3 – Measurement
4. Section 4 – Graphing the Data

HOMEWORK:

* READ: Chapter 1 – A Physics Toolkit
* READ: Chapter 2 – Representing Motion
* COMPLETE: Chapter 2 Vocabulary (short version) and Cornell Notes
* STUDY: Chapter 1 and Math Review
* STUDY: Ch 1 & 2 Vocabulary

Chapter 1 Vocabulary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Physics | Scientific methods | Hypothesis | Model | Scientific theory |
| Scientific law | Dimensional analysis | Significant figures | Measurement | Precision |
| Accuracy | Independent variable | Dependent variable | Line of best fit | Linear relationship |
| Quadratic relationship | Inverse relationship |  |  |  |

Chapter 2 Vocabulary

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| --- | --- | --- | --- |
| Particle model | Distance | Time interval | Instantaneous position |
| Coordinate system | Magnitude | Displacement | Average velocity |
| Origin | Vector | Resultant | Average speed |
| Position | Scalar | Position-time graph | Instantaneous velocity |

REMINDERS:

* ~~Chapter 1 Notes – Aug. 30~~
* TEST: Chapter 1 (includes math review) 🡪 **Tuesday, September 7**
* QUIZ: Ch 1 & 2 Vocabulary **🡪 Thursday, September 9**
* TEST: Chapter 2 🡪 **Tuesday, September 14**

**PHYSICS 2021 - 22 MATH REVIEW**

# TRIGONOMETRY

Answer the following questions using Pythagorean theorem, trigonometric functions and inverse trigonometric functions. For full credit, be sure to show your setup and work for each problem.

1. Fill in the missing side of each triangle:

a) b) c) d)

2. Find the marked side of each triangle:

a) b) c) d)

3. Find the value for the marked angle

a) b) c) d)



4. Write an expression for the variable with the question mark in terms of the other variables given.

a) b) c) d)